Sheet List

Block diagram

File: Block.kicad\_sch

Power

File: Power.kicad\_sch

MCU



File: MCU.kicad\_sch

Audio and Misc

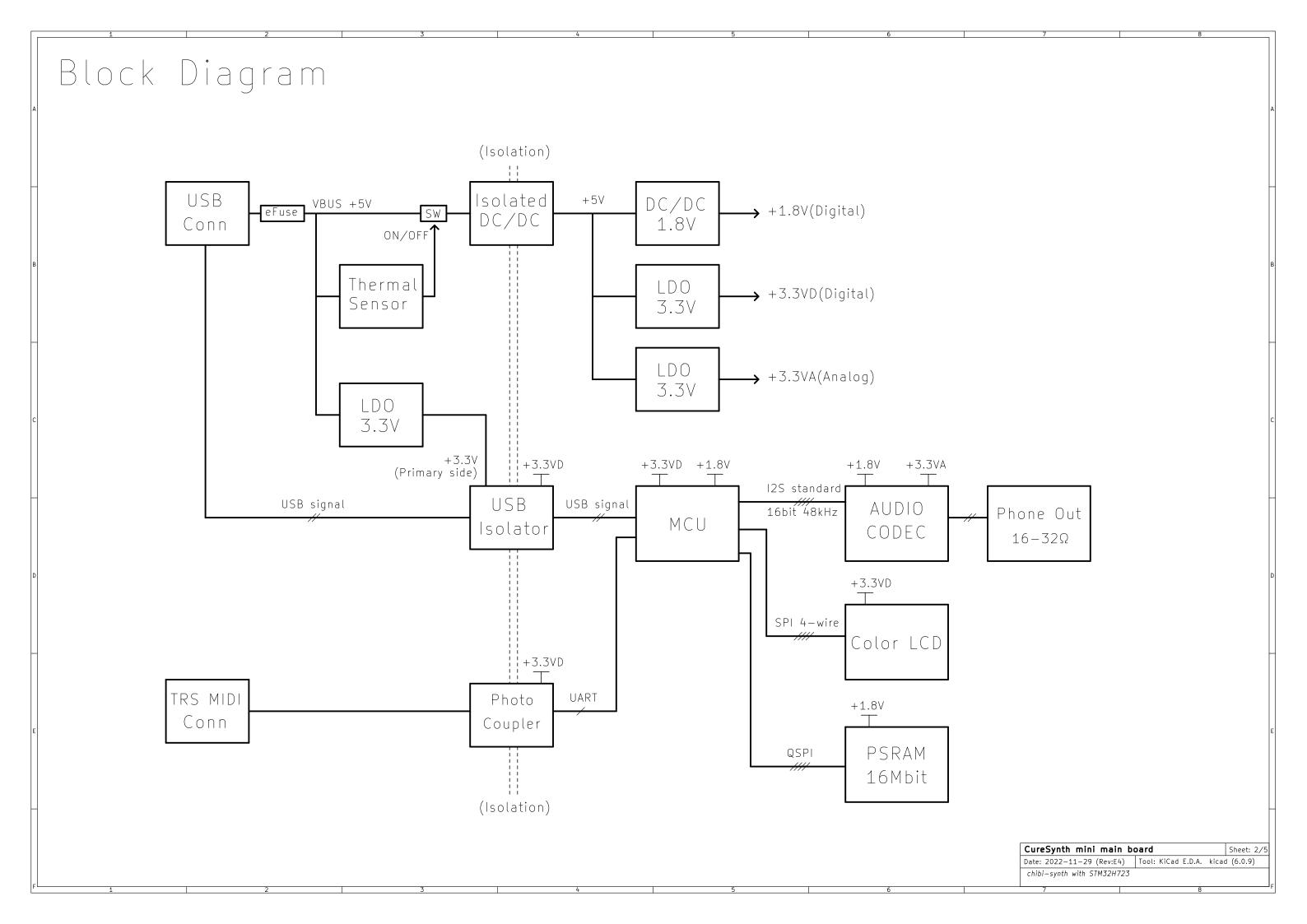


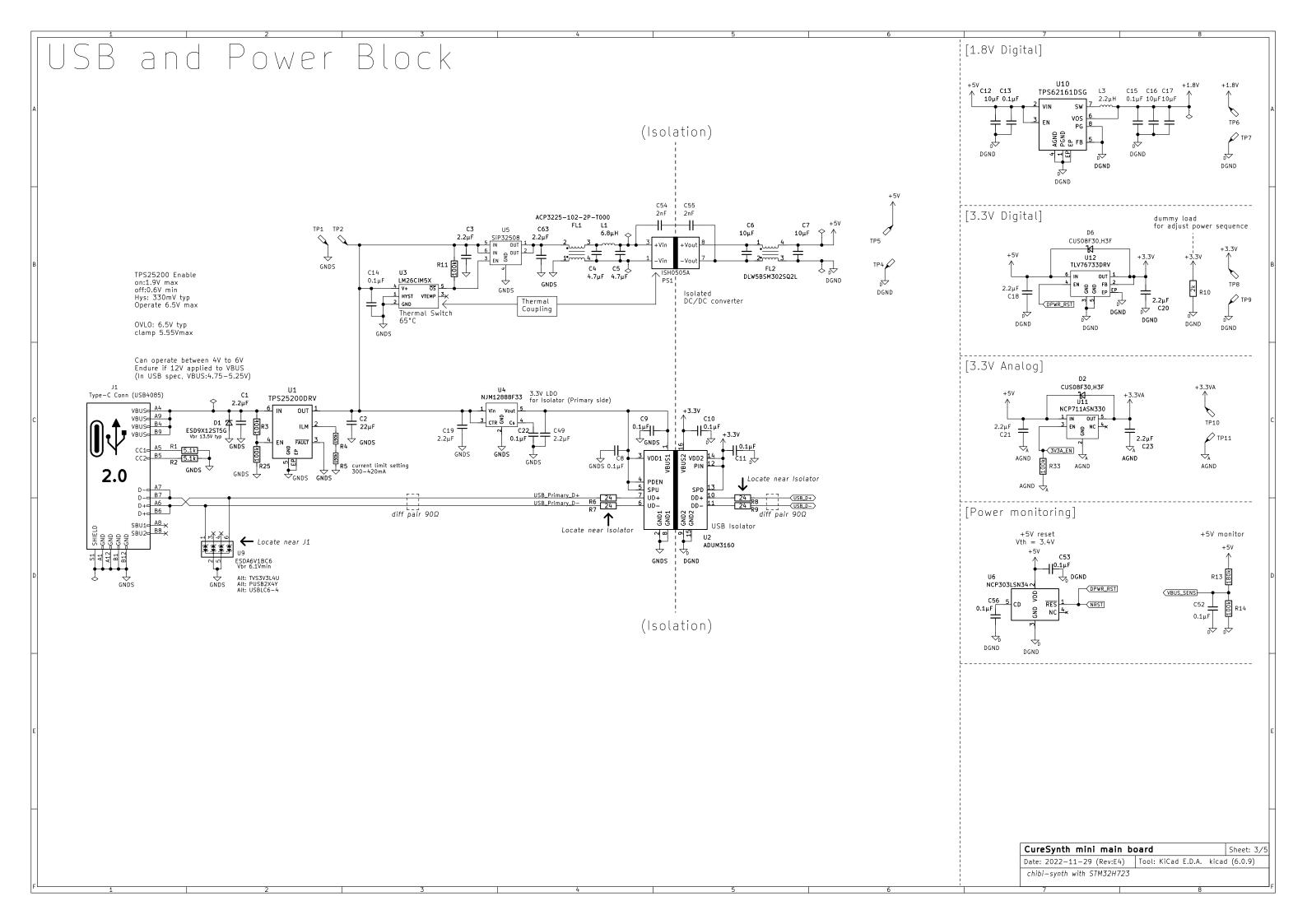
File: Audio.kicad\_sch

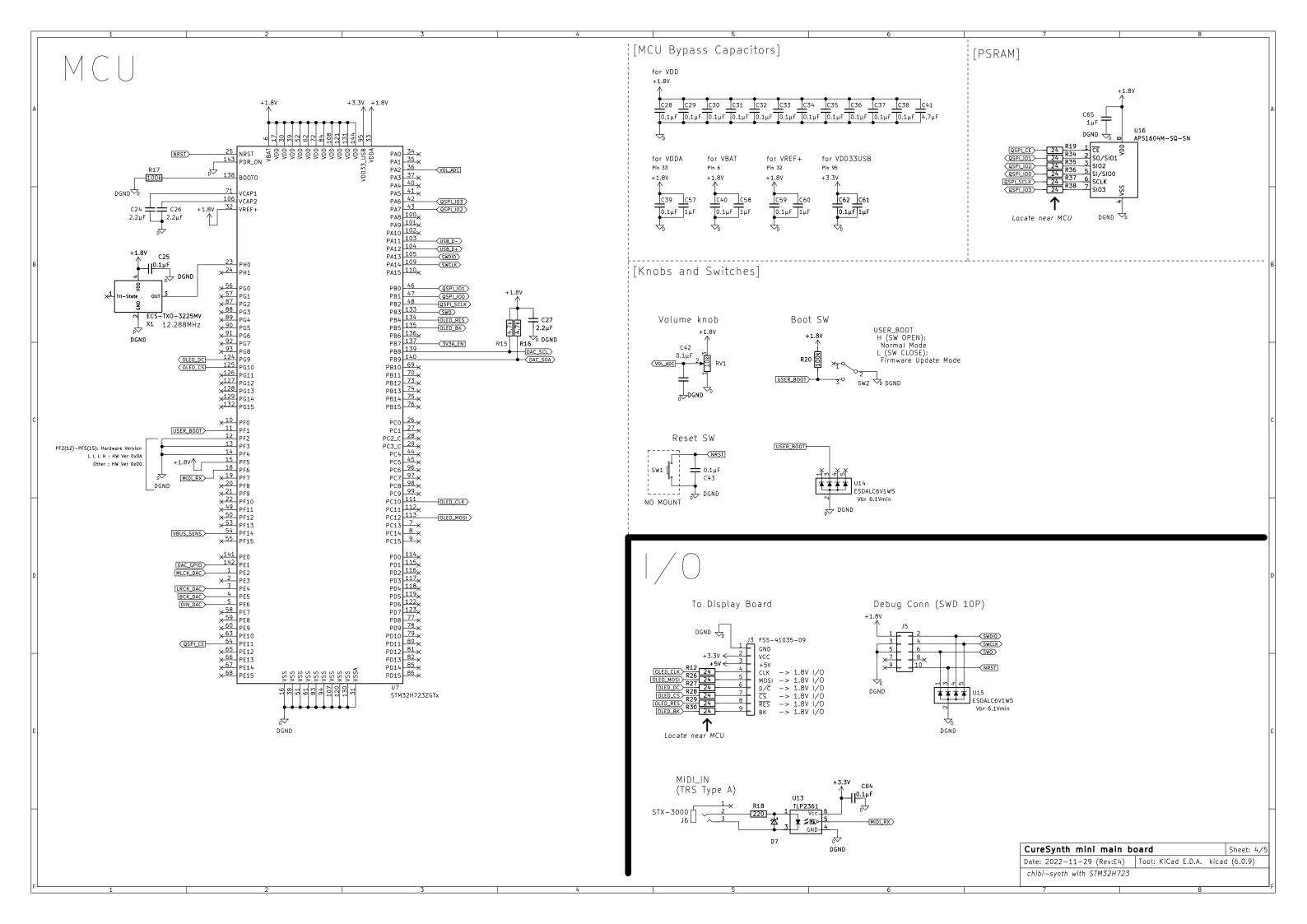
Update History

Rev.No	Date	Comments	
A1	2020-06-17	First revision.	
A2	2020-07-05	Disconnect with VBUS to U1-P3(VDD1).	
B1	2020-07-23	Change power structure to followings.  - isolated(5V-5V) - DC/DC(5V-3.3V)  - LDO(5V-3.3V)  Change main MCU.  (STM32F722RET -> STM32H750VBT)	
В2	2020-08-25	Change Display interface to SPI.	
C1	2020-10-01	Changed DAC. (PCM1774 -> WM8960)	
C2	2021-02-06	Changed main MCU to 144pin model. (STM32F722RET -> STM32H723ZGT6)	
		Changed MCU Voltage to 1.8V.	
D1	2021-04-03	Divided into ''main board'' and ''LCD board''.	
D2	2021-04-10	Modified M2 hole position. Divided into multiple sheets.	
E1	2022-01-22	Kicad6.0kアップデート 基板形状の見直し 2次側の電源ICを変更 1.8V TPS62161DSG 3.3VD TLV76733DRV 3.3VA NCP711 リセットICをNCP303k変更 LCD基板へのコネクタビン数を変更	
E2	2022-11-12	SWD端子にTVSダイオード追加 PSRAM追加 MIDI IN追加 UARTデバッグ端子削除 ハードウェアバージョン認識ピン追加	
E3	2022-11-14	MIDI RXピンをPE7->PF6に変更	
E4	2022-11-29	回路の変更なし GNDベタ形状・部品配置を調整	

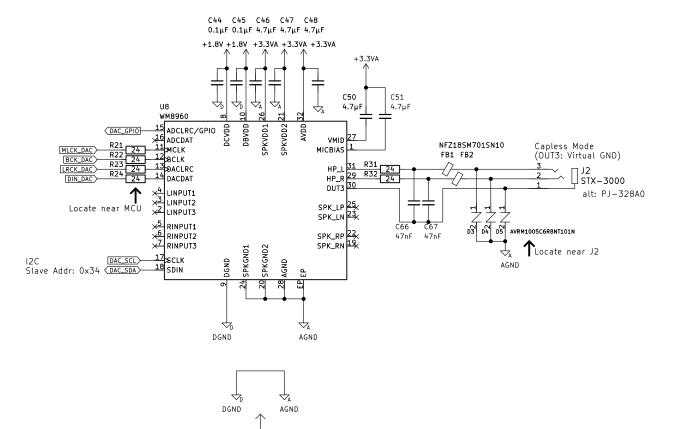
CureSynth mini main bo	Sheet: 1/5	
Date: 2022-11-29 (Rev:E4)	Tool: KiCad E.D.A. kica	d (6.0.9)
chibi-synth with STM32H723		







## Audio Out



Single point ground

## Misc.

Mounting hole to case M3

Logo Mark

CureSynth Logo

● H1 ● H2 ● H3 ● H4

Mounting hole to sub pcb

● H5 ● H6 ● H7

CureSynth mini main boardSheet: 5/5Date: 2022-11-29 (Rev:E4)Tool: KiCad E.D.A. kicad (6.0.9)

chibi-synth with STM32H723